

DP Barcode : 176109
PC Code No. : 080803
EFGWB Out :

12/2/92

TO: Robert Taylor
Product Manager # 25
Special Review and Reregistration Division (H7508W)

FROM: Elizabeth Behl, Head
Ground Water Technology Section
Environmental Fate & Ground Water Branch (EFED) (H7507C)

THRU: Henry Jacoby, Chief
Environmental Fate & Ground Water Branch (EFED) (H7507C)

Attached, please find the EFGWB review of...

Reg./File # : I.D. #282966

Common Name : Atrazine

Product Name : Aatrex

Company Name : Giba-Geigy

Purpose : To request additional pesticide residue data from the
North Carolina Dept. of Agric., Pesticide Section.

Type Product : Herbicide

Action Code : 406 ^{6(a)2} EFGWB #(s): 92-0681 Total Review Time = 1/4 days

EFGWB Guideline/MRID/Status Summary Table: The review in this package contains...

161-1		162-4		164-4		166-1	
161-2		163-1		164-5		166-2	
161-3		163-2		165-1		166-3	
161-4		163-3		165-2		167-1	
162-1		164-1		165-3		167-2	
162-2		164-2		165-4		201-1	
162-3		164-3		165-5		202-1	

Y = Acceptable (Study satisfied the Guideline)/Concur P = Partial (Study partially satisfied the Guideline, but additional information is still needed)
S = Supplemental (Study provided useful information, but Guideline was not satisfied) N = Unacceptable (Study was rejected)/Non-Concur

DP BARCODE: D176109

CASE: 282966
SUBMISSION: S414705

DATA PACKAGE RECORD
BEAN SHEET

DATE: 03/25/92
Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: MISCELLANEOUS ACTION: 406 RESUBMISSION
CHEMICALS: 080803 Atrazine (2-chloro-4-(ethylamino)-6-(isopropylami 0.0000%

ID#: 282966

COMPANY: CIBA-GEIGY CORP.

PRODUCT MANAGER: 25 ROBERT TAYLOR

703-305-6800 ROOM: CM2 241

PM TEAM REVIEWER: JAMES MORRILL

703-305-5705 ROOM: CM2 251

RECEIVED DATE: 02/27/92 DUE OUT DATE: 05/07/92

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 176109 EXPEDITE: N DATE SENT: 03/25/92 DATE RET.: / /
CHEMICAL: 080803 Atrazine (2-chloro-4-(ethylamino)-6-(isopropylamino)-s-tri

DP TYPE: 001 Submission Related Data Package

ADMIN DUE DATE: 04/19/92

CSF: N

LABEL: N

ASSIGNED TO

DATE IN

DATE OUT

DIV : EFED

03/26/92

/ /

BRAN: EFGB

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SECT: GTS

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REVR :

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CONTR:

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* * * DATA REVIEW INSTRUCTIONS * * *

Attn Groundwater Section:

Please review registrant's response to your review dated
December 18, 1991

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC BRANCH/SECTION DATE OUT DUE BACK INS CSF LABEL

EFGWB # 92-0681

6(a)(2)

Agricultural Division
CIBA-GEIGY Corporation
P.O. Box 18300
Greensboro, North Carolina 27419-8300
Telephone 919 632 6000

CIBA-GEIGY

422290- 01

Certified Mail

February 20, 1992

282966

Document Processing Desk [6(a)(2)]
Office of Pesticide Programs (H7504C)
U.S. Environmental Protection Agency
401 M. Street, S.W.
Washington, D.C. 20460

Attn: Mr. Robert J. Taylor, PM 25

Dear Mr. Taylor:

SUBJECT: CIBA-GEIGY RESPONSE TO YOUR LETTER OF
DECEMBER 20, 1991
REQUEST FOR ADDITIONAL INFORMATION ON FINDINGS OF
ATRAZINE AND SIMAZINE IN AVERY COUNTY, NC

In accordance with the subject letter and accompanying EF&GWB review, attached is additional information pertaining to the findings of atrazine and simazine in ground water in Avery County, North Carolina as described to you in correspondence from CIBA-GEIGY on November 4, 1991.

Copies of this letter and attachment are also being sent to Mr. Daniel Barolo and Ms. Kathy Pierce, SRRD, in response to a letter received from Mr. Barolo on January 29, 1992 regarding the same November 4, 1991 notification from CIBA-GEIGY.

Sincerely,

Karen S. Stumpf
Karen S. Stumpf
Senior Regulatory Manager
Regulatory Affairs

Attachment

cc: Daniel M. Barolo, Director
Special Review and Reregistration Division (H7508W)
Kathy Pierce, Review Manager
Special Review and Reregistration Division (H7508W)

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Reference: Atrazine and simazine
Location: Avery Co., NC

Reason for investigation: The Department of Agriculture in NC asked Ciba Geigy and the other atrazine and simazine registrants to assist in the investigation and sampling at this site.

Well locations: At the site and 7 surrounding residences.

Pesticide use history: Unknown

Number of wells investigated: 8

Number of wells with detects: 6 with atrazine and 3 with simazine

Depth of water table: Unknown

Depth of well: Unknown

Ground water flow direction: Visual inspection would indicate ground water flow to the south and east.

Past spill or disposal: The well owner indicated the well was at the mix/load site and that point-source contamination had occurred.

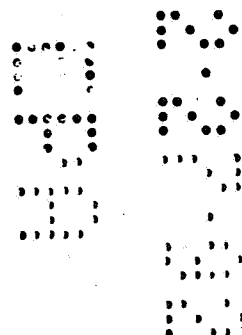
Well construction: Unknown; the well and mix/load site has been moved

Water use: Mixing/loading; the state has advised site owner not to drink the water from his well.

Comments: Test results taken from the samples split with the state indicate atrazine in 6 wells at levels of between .38 and 3.75 ppb. Simazine was in 3 wells at between .12 and 4.05 ppb. The highest values were at the suspect site. All other sites were <HAL.

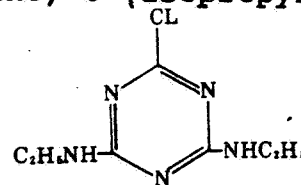
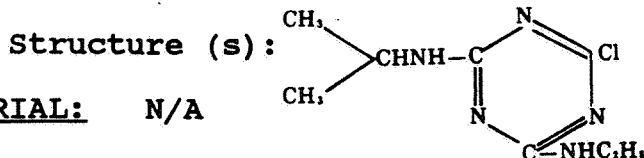
The State of North Carolina Dept. of Agriculture is coordinating the investigation and would be able to provide more information. They should be contacted at:

Dr. Henry Wade
North Carolina Dept. of Agriculture
Pesticide Section
PO Box 27647
Raleigh, NC
27611



1. CHEMICAL: Common name(s): atrazine and simazine

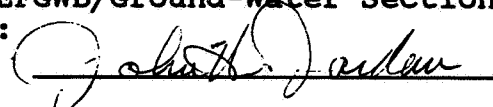
Chemical name(s): 2-chloro-4-(ethylamino)-6-(isopropyl amino)-s-triazine



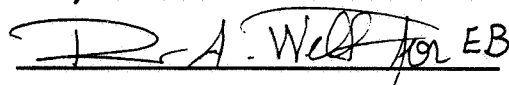
2. TEST MATERIAL: N/A

3. STUDY/ACTION TYPE: 6(a)2 Action - Atrazine and simazine detections in Avery County, North Carolina ground-water.

4. STUDY IDENTIFICATION: Atrazine and Simazine detections in ground water are under investigation by the North Carolina Department of Agriculture. Monitoring wells are being constructed to determine the source of contamination.

5. REVIEWED BY: John H. Jordan, Ph.D.
OPP/EFED/EFGWB/Ground-Water Section
Signature: 

Date: 12/1/92

6. APPROVED BY: Elizabeth Behl, Head
OPP/EFED/EFGWB/Ground-Water Section
Signature: 

Date: 12/2/92

7. CONCLUSIONS: Split sample analyses between Ciba-Geigy and the North Carolina Department of Agriculture indicate atrazine in 6 wells ranging from 0.38 to 3.75 ppb. Simazine was found in 3 wells from 0.12 to 4.05; the higher values were at the suspect site. All other residues were < HAL. The MCLs for atrazine and simazine are 3 and 4 ppb, respectively.

According to the Department of Agriculture, five other wells were sampled on July 30, 1992. The wells were approximately 1000 feet from the site source, which showed 24 detections from 0.05 to 0.10 ppb; there were no simazine detections. The contamination is in a karst area. The Department of Agriculture has not determined the source of some of the detected residues.

8. RECOMMENDATIONS: Monitoring and reporting of detections should continue. North Carolina ground-water monitoring reports have been requested from the Department of Agriculture. Data from these reports will be included in the Pesticides in Ground-Water Data Base.